

8-Mar-02									
Alvarion 5.8 GHz Spread Spectrum									
FCC ID: LKT-DS58									
						Calculate mW/cm2 here. Enter frequency in MHz:			
RF Hazard Distance Calculation					Calculation of Limits from 1.1310 Table 1				
								Controlled	Uncontrolled
								Ave 6 min	Ave 30 min
mW/cm2 from Table1: 1.00					F(MHz)	Actual F, MHz		Occ, mW/cm2	Gen, mW/cm2
					0.3-3	1		100.0	100.0
Max RF Power	TX Antenna	MPE			3.0 - 30.0	30		30.0	6.0
P, dBm	G, dBi	Safe Distance, cm			30.0-300	20		1.0	0.2
					300-1500	869		2.9	0.58
24.2	7.5	10.8	omni		1500-100000	1500		5.0	1.0
24.2	18.0	36.3	p2p sector						
18.0	18.0	17.8	p2mp sector						
24.2	29.0	128.9	p2p 2ft dish						
24.2	21.0	51.3	p2p integral		Enter P(watts)	Equivalent c	Enter dBm	Equivalent Watts	
Basis of Calculations:					4	36.0	36.0	4.0	
E^2/3770 = S, mW/cm2									
E, V/m = (Pwatts*Ggain*30)^.5/d, meters									
d = ((Pwatts*G*30)/3770*S))^0.5			Pwatts*Ggain = 10^(PdBM-30+GdBi)/10)						
NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less									

[illegible]